

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P638458

Luminaire Tested: **IFLD-S-SA6A-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638458
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (96) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20348.1 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

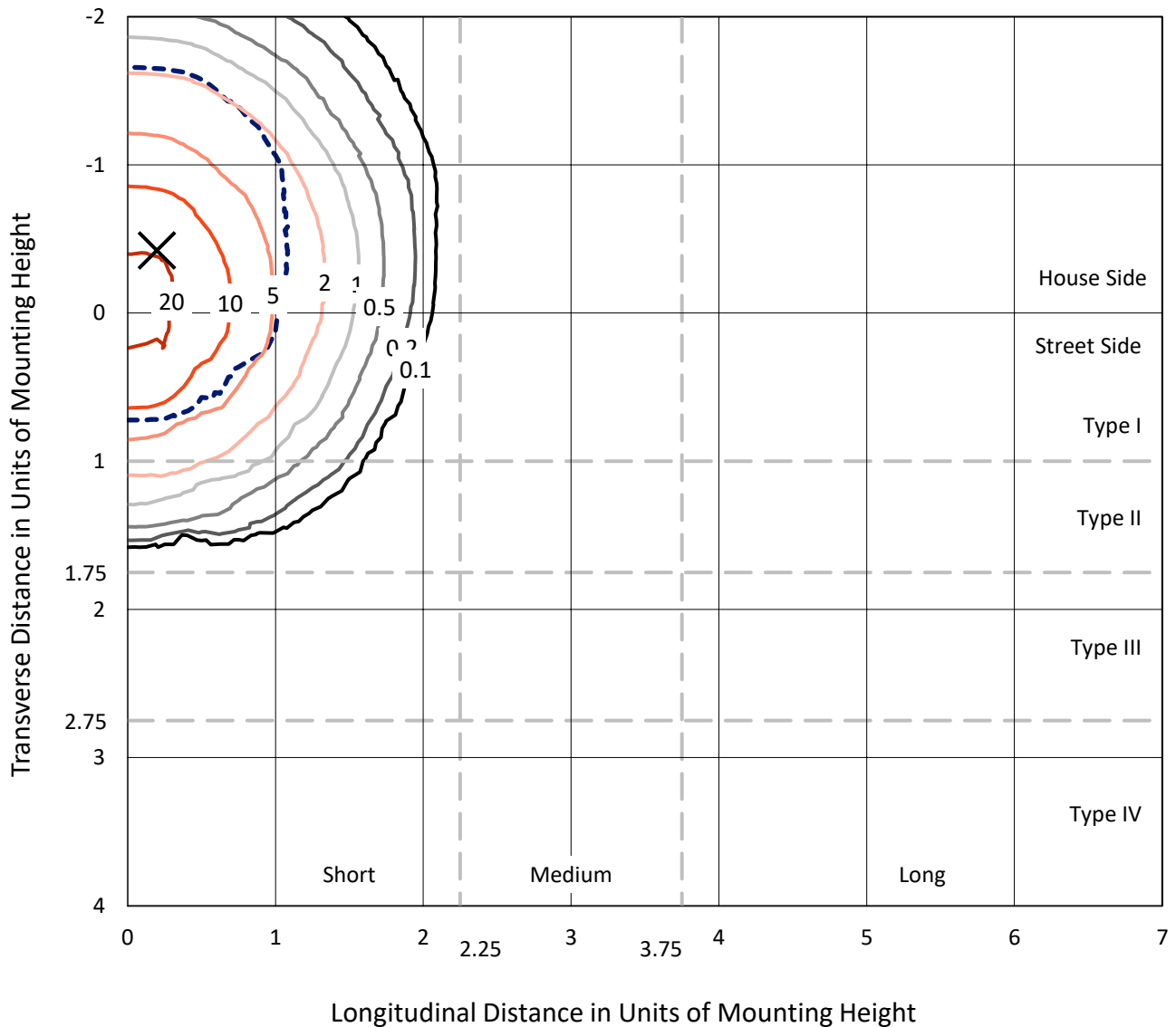
Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

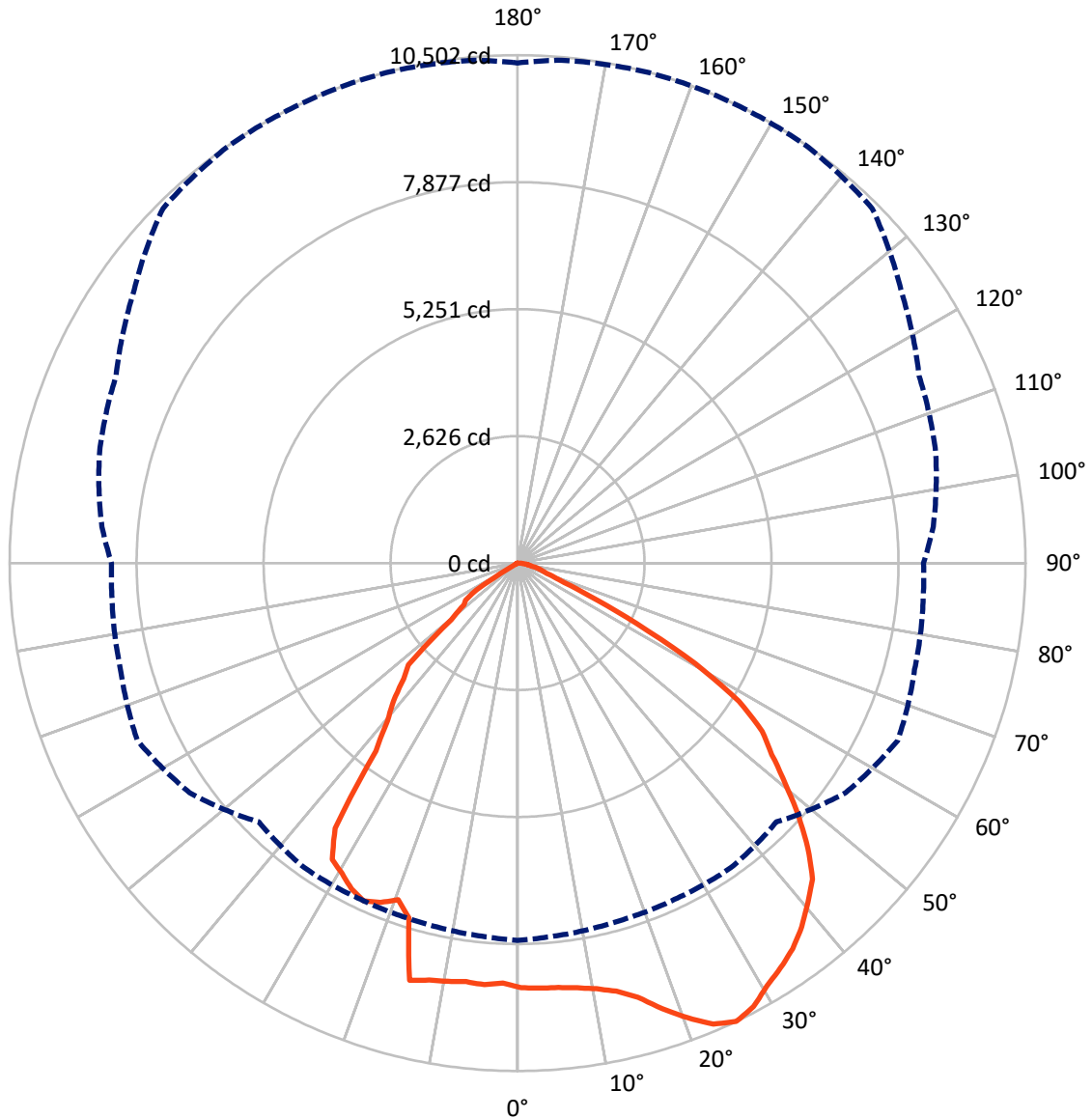
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12597.6	0.0	12597.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7750.6	0.0	7750.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	20348.1	0.0	20348.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	842.3	4.1
10°-20°	2571.9	12.6
20°-30°	4066.1	20.0
30°-40°	4593.0	22.6
40°-50°	4301.5	21.1
50°-60°	2965.6	14.6
60°-70°	796.7	3.9
70°-80°	166.0	0.8
80°-90°	44.9	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	20348.1	100.0
0°-180°	20348.1	100.0



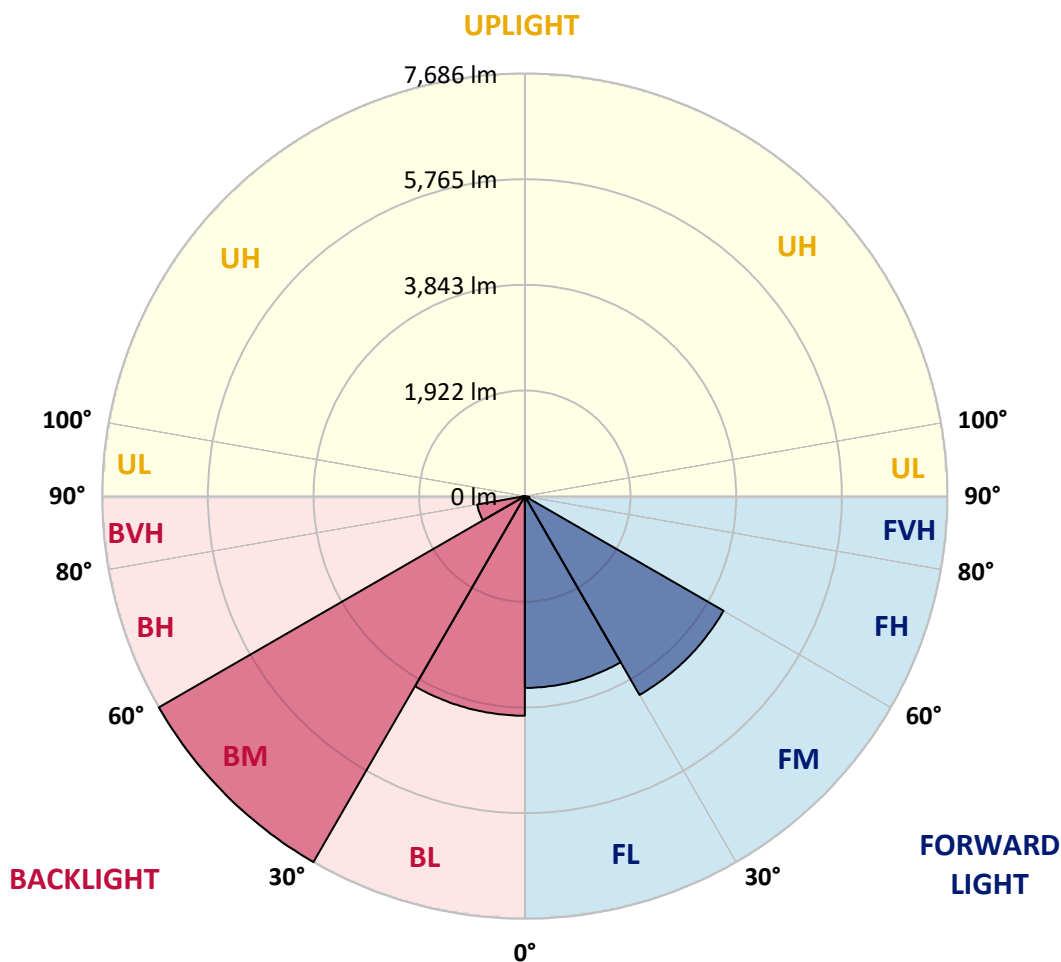
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3487.0	17.1			
FM (30°-60°)	4173.9	20.5			
FH (60°-80°)	83.6	0.4			G0/660
FVH (80°-90°)	6.0	0.0			G0/10
BL (0°-30°)	3993.4	19.6	B4/5000		
BM (30°-60°)	7686.2	37.8	B4/8500		
BH (60°-80°)	879.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	38.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8
2.5°	8818.7	8761.9	8708.1	8690.1	8764.9	8845.6	8794.8	8797.8	8779.8	8812.7
5°	8884.5	8806.8	8770.9	8744.0	8755.9	8839.7	8767.9	8794.8	8764.9	8803.8
7.5°	8860.6	8806.8	8770.9	8720.0	8758.9	8857.6	8788.8	8791.8	8776.9	8812.7
10°	8845.6	8806.8	8761.9	8767.9	8812.7	8896.5	8842.6	8872.6	8851.6	8872.6
12.5°	8881.5	8839.7	8815.7	8815.7	8854.6	8950.3	8923.4	8950.3	8941.3	8959.3
15°	8543.6	8582.5	8809.8	8911.4	8989.2	9084.9	9072.9	9099.8	9105.8	9132.7
17.5°	7206.9	7168.0	7150.1	7673.4	9063.9	9360.0	9351.0	9348.0	9318.1	9297.2
20°	7383.3	7368.4	7347.4	7386.3	7541.8	9503.5	9563.3	9195.5	9087.9	9078.9
22.5°	7664.4	7640.5	7562.8	7565.7	7613.6	8262.5	9267.3	8932.4	8896.5	8875.5
25°	7802.0	7754.1	7691.3	7673.4	7688.3	7568.7	8277.5	8675.2	8498.8	8418.0
27.5°	7559.8	7562.8	7511.9	7559.8	7502.9	6964.7	6662.6	8172.8	8166.8	8130.9
30°	7377.3	7368.4	7308.6	7368.4	6976.6	6375.6	6247.0	7622.6	7559.8	7511.9
32.5°	6818.1	6824.1	6997.6	7230.8	6587.9	6112.4	5723.6	6809.2	7404.3	7377.3
35°	4877.4	4889.3	5505.3	6656.7	5998.8	5589.1	5559.2	5885.1	7159.0	7171.0
37.5°	4694.9	4694.9	4680.0	4868.4	5535.3	5376.8	5436.6	5403.7	6558.0	6587.9
40°	4563.4	4536.5	4515.5	4219.5	3848.7	5227.2	5269.1	5119.6	6199.1	6205.1
42.5°	4404.9	4375.0	4381.0	3833.7	3445.0	4856.4	4739.8	4539.4	5601.0	5607.0
45°	4114.8	4165.6	4201.5	3355.2	3325.3	3468.9	4372.0	4246.4	5197.3	5308.0
47.5°	2093.3	2138.1	3280.5	3086.1	3154.9	3083.1	3693.2	3696.1	4324.1	4692.0
50°	1898.9	1886.9	1889.9	1800.2	2912.7	2494.0	2670.4	3388.1	3462.9	3989.2
52.5°	1770.3	1767.3	1584.9	1408.5	1830.1	2195.0	1937.8	2452.1	2574.7	3379.2
55°	1309.8	1405.5	1250.0	1324.8	1145.3	1758.4	1749.4	2212.9	2254.8	2709.3
57.5°	12.0	15.0	35.9	1007.8	792.5	879.2	1208.1	1510.2	1584.9	2111.2
60°	3.0	6.0	15.0	29.9	514.4	541.3	807.4	873.2	983.8	1259.0
62.5°	0.0	0.0	6.0	15.0	26.9	221.3	257.2	281.1	433.6	642.9
65°	0.0	0.0	3.0	9.0	15.0	35.9	62.8	131.6	188.4	233.3
67.5°	0.0	0.0	3.0	6.0	12.0	17.9	35.9	50.8	80.7	137.6
70°	0.0	0.0	3.0	6.0	9.0	15.0	23.9	35.9	47.8	68.8
72.5°	0.0	0.0	3.0	6.0	6.0	17.9	17.9	26.9	35.9	44.9
75°	0.0	0.0	3.0	3.0	6.0	12.0	17.9	20.9	23.9	35.9
77.5°	0.0	0.0	3.0	6.0	9.0	12.0	15.0	23.9	20.9	20.9
80°	0.0	0.0	3.0	9.0	9.0	15.0	17.9	23.9	15.0	15.0
82.5°	0.0	0.0	3.0	12.0	9.0	29.9	29.9	32.9	12.0	12.0
85°	0.0	0.0	9.0	6.0	17.9	29.9	26.9	17.9	15.0	9.0
87.5°	0.0	0.0	3.0	3.0	6.0	9.0	20.9	17.9	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8779.8	0°	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8	8779.8
8726.0	2.5°	8845.6	8806.8	8887.5	8878.5	8839.7	8821.7	8800.8	8782.8	8651.3
8732.0	5°	8848.6	8788.8	8887.5	8869.6	8863.6	8833.7	8815.7	8842.6	8723.0
8755.9	7.5°	8848.6	8788.8	8896.5	8902.5	8893.5	8869.6	8866.6	8884.5	8785.8
8797.8	10°	8908.4	8884.5	8974.2	8983.2	8971.2	8965.3	8950.3	8938.3	8833.7
8941.3	12.5°	9034.0	8986.2	9087.9	9114.8	9105.8	9120.8	9084.9	9102.8	8995.2
9087.9	15°	9186.5	9189.5	9267.3	9327.1	9321.1	9369.0	9315.1	9363.0	9285.2
9255.3	17.5°	9419.8	9452.7	9563.3	9653.0	9685.9	9721.8	9685.9	9700.9	9590.3
9069.9	20°	9174.6	9297.2	9829.5	9994.0	10062.7	10095.6	10035.8	10053.8	9943.1
8842.6	22.5°	8953.3	9111.8	9584.3	10098.6	10310.9	10376.7	10355.8	10352.8	10310.9
8394.1	25°	8627.3	8947.3	9159.6	9703.9	10370.7	10490.4	10502.3	10499.3	10436.5
8119.0	27.5°	8226.6	8298.4	8848.6	9180.6	9952.1	10406.6	10388.7	10302.0	10218.2
7547.8	30°	7715.3	8041.2	8289.4	8818.7	9410.8	10149.5	10149.5	10083.7	9996.9
7344.5	32.5°	7455.1	7876.7	8107.0	8298.4	8803.8	9862.4	9982.0	9913.2	9844.4
7186.0	35°	7317.5	7380.3	7918.6	8092.1	8519.7	9309.2	9793.6	9724.8	9674.0
6764.3	37.5°	7015.5	7162.0	7413.2	7876.7	8008.3	8857.6	9542.4	9506.5	9446.7
6217.1	40°	6342.7	6734.4	7120.2	7559.8	7697.3	8277.5	9237.4	9252.3	9171.6
5633.9	42.5°	5944.9	6211.1	6815.1	7111.2	7482.0	7903.7	8941.3	8965.3	8908.4
5337.9	45°	5478.4	5774.5	6199.1	6737.4	7242.8	7389.3	8418.0	8669.2	8621.4
4748.8	47.5°	5050.8	5290.0	5810.4	6354.6	6913.8	6892.9	7816.9	8289.4	8223.6
4297.2	50°	4443.8	4862.4	5107.6	5607.0	6441.3	6498.2	7177.0	7843.8	7790.0
3651.3	52.5°	3747.0	4273.3	4742.8	5200.3	5962.9	6097.4	6581.9	7389.3	7353.4
2790.1	55°	3274.5	3657.3	4186.6	4554.4	5382.7	5741.6	6136.3	6955.7	6937.8
2293.6	57.5°	2329.5	3068.2	3504.8	4019.1	4455.7	5104.6	5397.7	6073.5	5906.1
1270.9	60°	1578.9	1925.8	2458.1	3011.3	3304.4	3953.3	4225.5	4766.7	4721.9
759.6	62.5°	834.3	1154.3	1534.1	1812.2	2024.5	2655.5	2769.1	3352.3	3337.3
305.0	65°	367.8	487.4	831.3	974.9	1193.2	1486.2	1584.9	1794.2	1743.4
149.5	67.5°	191.4	290.1	469.5	577.1	726.7	837.3	918.1	983.8	1025.7
98.7	70°	116.6	212.3	290.1	400.7	499.4	589.1	651.9	741.6	795.4
50.8	72.5°	86.7	134.6	200.4	308.0	361.8	466.5	529.3	595.1	642.9
41.9	75°	47.8	89.7	161.5	242.2	290.1	379.8	436.6	481.5	496.4
23.9	77.5°	29.9	68.8	134.6	188.4	227.3	308.0	293.1	334.9	370.8
17.9	80°	20.9	50.8	104.7	155.5	158.5	197.4	233.3	269.1	293.1
12.0	82.5°	15.0	41.9	77.8	119.6	104.7	152.5	182.4	209.3	152.5
9.0	85°	12.0	29.9	38.9	71.8	59.8	107.7	92.7	89.7	59.8
6.0	87.5°	9.0	15.0	26.9	32.9	23.9	23.9	29.9	35.9	29.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8779.8
8561.5
8621.4
8672.2
8747.0
8899.5
9156.6
9494.6
9865.4
10176.4
10340.8
10152.4
9964.1
9787.6
9602.2
9386.9
9153.7
8902.5
8627.3
8271.5
7799.0
7377.3
6958.7
5888.1
4724.9
3340.3
1722.5
1025.7
798.4
651.9
487.4
376.8
296.1
110.6
59.8
29.9
0.0

(END OF REPORT)